Confidential - Per 2004 MDL 1358 Order

		Page 3569
1	UNITED STATES DISTRICT COURT	
2	SOUTHERN DISTRICT OF NEW YORK	
3	X	
4	In re: Methyl Tertiary Butyl Ether	
5	("MTBE") Products Liability Litigation	
6	X	
7	Master File No. 1:00-1898	
8	MDL No. 1358 (SAS)	
9	M21-88	
10	X	
11		
12	CONFIDENTIAL (Per 2004 MDL 1358 Order)	
13	VIDEOTAPED 30(b)(6) DEPOSITION OF	
14	DAVID P. BOLIN RE FOCUS PLUMES 6, 8, AND 9	
15	November 21, 2008	
16		
17	Taken at 650 Town Center Drive,	
18	20th Floor, Costa Mesa, California, before	
19	Harry A. Palter, California Certified	
20	Shorthand Reporter No. 7708, Certified	
21	LiveNote Reporter.	
22		
23	GOLKOW TECHNOLOGIES, INC.	
24	877.370.3377 ph 917.591.5672 fax deps@golkow.com	

Page 3804 There's been MTBE detected in 1 Α. every single well drilled for this site, 2 including the on-site wells, the site margin 3 wells, and the offsite wells with the exception of MW-6 in the northeast corner. 5 There is water that appears to 6 7 be flowing away from the site. contamination has never been delineated. 8 9 And -- vertically or laterally. So I think it's not being 10 11 contained. If it's not being contained, 12 it's certainly not being removed. 13 And just to clarify -- I want 14 Q. to make sure I understand -- do you have a 15 view as to what direction the MTBE or TBA at 16 this site is traveling? 17 MS. O'REILLY: Incomplete 18 hypothetical. 19 Overbroad. 20 THE WITNESS: We have 21 talked about that several times. 22 In this case, the flow 23 direction, or directions, are 24

Site Name Site Name Site Name Site Name Site Name Site Name Site Name Arco #6131 Arco #6131 Arco 1994 Arco 1994 Arco 1994 Hundington Beach Arco Shell #6502 Shell #6502 Shell #6502 Onocal #5123 Unocal #5123 Unocal #5226 Unocal #5226 Onocal #5226 Onocal #5226 One One			farthest	1			
	:	•	downgradient	max MTBE detected	remediation	remediation	
	Address	City	well	in well	started	technology	
	3470 Fairview Rd,	Costa Mesa	MW-15	4.9 in 11/01	2/1/1998	DPE/P&T	
	3201 Harbor Blvd.	Costa Mesa	Ф	41000 in 11/99	11/3/2004	Sparg/SVE	
	17900 Newhope St.	Fountain Valley	no wells	n	na	none	
	3195 Harbor Blvd.	Costa Mesa	MW7	5/23/2001	4/1/1995	P&T	
	700 State College Blvd.	Anaheim	UNK - closed 7/30/	UNK - closed 7/30/01, Geotrack rpts leak 7/30/01, VE test Mar-01, excav	0/01, VE test Mar	-01, excav	
	676 S. State College Blvd.	Anaheim	UNKNOWN	UNKNOWN - no data after 4/16/99	Mar-98	VE	
	5992 Westminster Blvd.	Westminster	8-WW	880 in 11/03	поле	none	
	6002 Bolsa	Huntington Beach	MVV-8	1900 in 2/02	7/9/2002	DPE	
	6502 Bolsa Ave.	Huntington Beach	B-21 B-25 B-46	630 in 9/00 6.8 in 9/01 5.8 in 8/06	4/1/1989	P&T	
	6311 Westminster Blvd.	Westminster	6-WW	93 in 8/00	5/1/2003	P&T	
	14972 Springdale St.	Huntington Beach	MW-15	15 in 5/03	Apr-02	DPE	
	6322 Westminster Ave.	Westminster	MW-9	12000 in 7/00	12/18/2004	P&T	Ē
9 Westminster Shell	5981 Westminster	Westminster	MW-9	90 in 8/97	1/18/2001	P&T	Par With
9 USA #141	14600 Edwards St.	Westminster	MW-7	220 in 8/97	6/9/2000	DPEinterim	

		Reference Rpt / Doc
(1) MTBE detected in production wells in 2005 (wells MCWD-3B, MCWD-5, and MCWD-7).		4/23/2008 1st Oir 0s GWM & Rem Prog Rpt.
(4) The MTBE plume migrated down below the screened B-8 slightly tarther downgrad, B-9 higher interval in downgradient well(s). Case closed 2006. MTBE: max 120,000 11-26-97, 12000 6-8 MTBE detected in production wells in 2005 (wells COSED Mar TBA 6190 5-15-03; OCHCA CASE CLOSED Mar-06.	B-8 slightly farther downgrad, B-9 higher MTBE: max 120,000 11-26-97, 12000 6-8- 10/4/05 3rd Qtr 05 GWM Rpt; 11/2/05 00; B-9 max TBA 6190 5-15-03; OCHCA Case Close Sum Rpt. CASE CLOSED Mar-08.	10/4/05 3rd Qtr 05 GWM Rpt; 11/2/05 Case Close Sum Rpt.
USTs installed in 2006.	USTs installed in 2006.	
(2) There was a significant spike in MTBE detections in the most downgradient monitoring well in 2001 that indicated an additional significant release of MTBE from the site.	Not max MTBE, but 2nd spike max on 5/23/01 (6 yrs after starling water rem).	4/11/08 1st Qir 08 GWM & Rem Prog Rpt

(4) Leak reported 2001. The MTBE plume migrated down below the screened interval in downgradient well(s).	Case closed 7/30/01; leak reported (Geotrack) 7/30/01 VE rem Mar-01.
(4) The MTBE plume migrated down below the screened case closed 7/15/99, rem Apr-00, no data interval in downgradient well(s).	case closed 7/15/99, rem Apr-00, no data i info after 4/16/99.
(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7).	NO record of GW capture OR remediation 12/14/08 4th Qtr 06 GWM Rpt - shallow to date.
(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7).	MW4-8 at downgrad edge of site (S); Upper zone MW4-12 farther downgrad, maybe too shallow, MTBE in zone "C", but deeper 1/31/08 4th Qtr 07 GWM & Stat Rpt zone untested at MW4-12
(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7)	GW flow NW, W. & SW; max TBA: well B. 5/9/08 1st Qtr 08 GWM & Stat Rpt.

(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7).	NO record of GW capture OR remediation 12/14/08 4th Qtr 06 GWM Rpt - shallow to date.	12/14/08 4th Qtr 06 GWM Rpt - shallow zone.
(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7).	MW-8 at downgrad edge of site (S); Upper zone MW-12 farther downgrad, maybe 131/08 4th Qtr 07 GWM & Stat Rpt zone shellow; MTBE in zone "C", but deeper 131/08 4th Qtr 07 GWM & Stat Rpt zone untested at MW-12	1/31/08 4th Qtr 07 GWM & Stat Rpt.
(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7).	GW flow NW, W, & SW; max TBA: well B- 5/9/08 1st Qtr 08 GVM & Stat Rpt. $21 = 1,200$ ug/L in 6/01 & 3/08.	5/9/08 1st Qtr 08 GWM & Stat Rpt.
(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7).	GW flow S; max TBA in MW-9 100 ug/L 8/20/01.	4/21/08 1st Otr 08 Status Rpt.
(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7).	GW flows S to SW in zones A, B, & C, downgrad well MW-16 (ND MTBE & TBA) covered by asphalt bef 11/11/02; optimum location???	1/14/08 4th Qtr 08 GV/M Rpt.
(1) MTBĘ detected (LIMS) in 2005 (HB-13) and 2008 (HB-7).	On-site GW remed began affr max MTBE detect in furthest off-site well - not captured.	4/23/08 1st Qtr 08 GWM Rpt.
(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7).	No effort to capture or mitigate GW contam until 8 years after leak detection.	11/2/07 3rd Qtr 07 GWM Rpt.
(1) MTBE detected (LIMS) in 2005 (HB-13) and 2006 (HB-7).	Off-site wells not loc downgrad of gw flow direction.	11/30/07 4th Qtr 07 GWM Rpt.

ORANGE COUNTY WATER DISTRICT SAMPLE INFORMATION AND RESULTS

Station Name: HB-13/1 Station Type: WELL CASING Perf Interval (ft bgs): 280-810 Aquifer: UNDEFINED

> Sample Group ID: 5000869 Sample ID: 5002250

Sample Date/Time: 01/18/2005 09:50:00
Receive Date/Time: 01/18/2005 11:50:00
Sampling Method: DEDICATED PUMP
Sampling Agency: O.C. WATER DISTRICT
Sampled By: BRIAN OKEY

Monitoring Program: Title 22

Well Owner: HUNTINGTON BEACH

Well Name: Well No. 13

City: HUNTINGTON BEACH

Lab Sample No.: 05010404-02 Laboratory: OCWD Analysis Requested: 524

FIELD PARAMETERS:

EC (umhos/cm): 934
pH (UNITS): 7.4
TEMP (C): 19.3
D.O. (mg/L.): NA
D.O. TEMP (C): NA
Total Chlorine (mg/L.): NA
Free Chlorine (mg/L): NA

Comments:

	ameter	Analysis	Da	tos	Re	sults	- Detec	Limits -
Abbr	Name	Method	Extract	Analysis	Value	Units	Value	Unit
Reported \	/alues				(************************************			
TOTALX	Total Xylenes (m,p,&o)	524.2		01/28/2005	ND	ug/L	.5	ug/L
CH3CI	Chloromethane	524.2		01/28/2005		ug/L	.5	ug/L ug/L
CH3Br	Bromomethane	524.2		01/28/2005		ug/L	.5	ug/L
VNYLCL	Vinyl chloride	524.2		01/28/2005		ug/L	.5	ug/L
CIETHA	Chloroethane	524.2		01/28/2005		ug/L	.5 .5	ug/L ug/L
CH2Ct2	Methylene Chloride	524.2		01/28/2005		ug/L	.5	
11DCE	1,1-Dichloroethene	524.2		01/28/2005		ug/L:	.5 .5	ug/L ug/L
11DCA	1,1-Dichloroethane	524.2		01/28/2005		ug/L	.5	ug/L ug/L
CHCI3	Chloroform	524.2		01/28/2005	-,	ug/L	.5 .5	
CCI4	Carbon tetrachloride	524.2		01/28/2005		ug/L	.5	ug/L
12DCP	1,2-Dichloropropane	524.2		01/28/2005		ug/L	.5	ug/L
TCE	Trichloroethene	524.2		01/28/2005		ug/L	.5	ug/L
112TCA	1,1,2-Trichloroethane	524.2		01/28/2005		ug/L	.5 .5	ug/L
CHBr2C	Dibromochloromethane	524.2		01/28/2005		ug/L	.5 .5	ug/L
PCE	Tetrachloroethene	524.2	•	01/28/2005		ug/L	.5 .5	ug/L
CLBENZ	Chlorobenzene	524.2		01/28/2005		ug/L	.5 .5	ug/L
12DCB	1,2-Dichlorobenzene	524.2		01/28/2005		ug/L	.5 .5	ug/L
13DCB	1,3-Dichlorobenzene	524.2		01/28/2005		ug/L	.5	ug/L
14DCB	1,4-Dichlorobenzene	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L
CCI3F	Trichlorofluoromethane (Freon 11)	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L
t12DCE	trans-1,2 Dichloroethene	524.2		01/28/2005		ug/L	.5 .5	ug/L
12DCA	1,2-Dichloroethane	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L
111TCA	1,1,1-Trichloroethane	524.2		01/28/2005	ND	ug/L	.5	ug/L
CHBrCI	Bromodichloromethane	524,2		01/28/2005	ND	ug/L	.5 .5	ug/L
t13DCP	trans-1,3-Dichloropropene	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L
c13DCP	cis-1,3-Dichloropropene	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L
BENZ	Benzene	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L
CHBr3	Bromoform	524,2		01/28/2005	ND	ug/L	.5 .5	ug/L
1122PC	1.1.2.2-Tetrachloroethane	524.2		01/28/2005	ND	ug/L ug/L	.5 .5	ug/L
	Toluene	524.2		01/28/2005		ug/L	.5 .5	ug/L
EIBENZ	Ethylbenzene	524.2			ND	ug/L ug/L	.5 .5	ug/L
CI3F3E	Trichlorotrifluoroethane (Freon 113)			01/28/2005	1.4	-		ug/L
MEK	Methyl Ethyl Ketone (MEK)	524.2			ND .	ug/L	.5 5	ug/L
	month marks a control fastered	Va-T.4		0 112012000	ii.	ug/L	ນ	ug/L

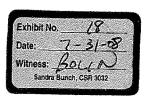
NA : Not Analyzed ND : Not Detected

TR : Trace

02/11/2005 07:34

OCWD WRMS RPT#: 3048

Page: 1



ORANGE COUNTY WATER DISTRICT SAMPLE INFORMATION AND RESULTS

Station Name: HB-13/1 Station Type: WELL CASING Perf Interval (ft bgs): 280-810

Aquifer: UNDEFINED

Sample Group ID: 5000869 Sample ID: 5002250

Sample Date/Time: 01/18/2005 09:50:00 Receive Date/Time: 01/18/2005 11:50:00 Sampling Method: DEDICATED PUMP Sampling Agency: O.C. WATER DISTRICT Sampled By: BRIAN OKEY

Monitoring Program: Title 22

Well Owner: HUNTINGTON BEACH

Well Name: Well No. 13

City: HUNTINGTON BEACH

Lab Sample No.: 05010404-02 Laboratory: OCWD Analysis Requested: 524

FIELD PARAMETERS:

Free Chlorine (mg/L): NA

EC (umhos/cm): 934 pH (UNITS): 7.4 TEMP (C): 19.3 D.O. (mg/L): NA D.O. TEMP (C): NA Total Chlorine (mg/L): NA

Comments:

	rameter	Analysis		ites	Re	sults	- Detect Limits -			
Abbr	Name	Method	Extract	Analysis	Value	Units	Value	Units		
Reported	Values							······································		
MIBK	Methyl Isobutyl Ketone (MIBK)	524,2		01/28/2005	ND	ug/L	e			
B2CLEE	bis (2-chloroethyl) ether	524.2		01/28/2005		ug/L ug/L	5 5	ug/L		
CCI2F2	Dichlorodifluoromethane	524.2		01/28/2005		ug/L ug/L	.5	ug/L		
22DCP	2,2-Dichloropropane	524.2		01/28/2005		ug/L	.5 .5	ug/L		
c12DCE	cis-1,2-Dichloroethene	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L		
CH2BrC	Bromochloromethane	524.2		01/28/2005		ug/L ug/L	.5 .5	ug/L		
11DCP	1,1-Dichloropropene	524.2		01/28/2005		ug/L ug/L	.5 .5	ug/L		
CH2Br2	Dibromomethane	524.2		01/28/2005		ug/L	.s .5	ug/L		
13DCP	1,3-Dichloropropane	524.2		01/28/2005	ND	ug/L ug/L	.5 .5	ug/L		
EDB	1,2-Dibromoethane	524.2		01/28/2005	ND	ug/L	.a .5	ug/L		
1112PC	1,1,1,2-Tetrachioroethane	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L		
o-XYL	o-Xylene	524.2		01/28/2005	ND	ug/L ug/L		ug/L		
STYR	Styrene	524.2		01/28/2005	ND	-	.5	ug/L		
ISPBNZ	Isopropylbenzene	524.2		01/28/2005	ND	ug/L	.5	ug/L		
123TCP	1,2,3-Trichloropropane	524.2		01/28/2005	ND	ug/L	.5	ug/L		
PRPBNZ	Propylbenzene	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L		
BRBENZ	Bromobenzene	524.2		01/28/2005	ND	ug/L		ug/L		
135TMB	1,3,5-Trimethylbenzene	524.2		01/28/2005	ND	ug/L	.5 .5	ug/L		
2CLTOL	2-Chlorotoluene	524.2			ND	ug/L ug/L	.5 .5	ug/L		
4CLTOL	4-Chlorotoluene	524.2		01/28/2005	ND	ug/L ug/L	.5 .5	ug/L		
BBENZ	tert-Butylbenzene	524.2		01/28/2005	ND	•	.5 .5	ug/L		
124TMB	1,2,4-Trimethylbenzene	524.2			ND	ug/L ug/L	.5 .5	ug/L		
BBENZ	sec-Butylbenzene	524.2			ND	ug/L	.5 .5	ug/L		
IPTOL	4-isopropyltoluene	524.2			ND		.5 .5	ug/L		
BBENZ	n-Butylbenzene	524.2			ND	ug/L ug/L	.5 .5	ug/L		
OBCP	1,2-Dibromo-3-chloropropane	524.2			ND	~		ug/L		
24TCB	1,2,4-Trichlorobenzene	524.2			ND	ug/L	.5	ug/L		
-ICIBut	Hexachlorobutadiene	524.2			ND ND	ug/L	.5	ug/L		
AP	Naphthalene	524.2			ND ND	ug/L	.5 F	ug/L		
23TCB	1,2,3-Trichlorobenzene	524.2			ND ND	ug/L	.5 e	ug/L		
np-XYL	m.p-Xylene	524.2			ND ND	ug/L	.5 #	ug/L		
BENZ	Nitrobenzene	524.2			ND ND	ug/L	.5	ug/L		
13DCP	Total 1,3-Dichloropropene	524.2			ND ND	ug/L ug/L	10 .5	ug/L ug/L		

NA: Not Analyzed ND: Not Detected

TR: Trace

02/11/2005 07:34

OCWD WRMS RPT#: 3048 Page: 2

ORANGE COUNTY WATER DISTRICT SAMPLE INFORMATION AND RESULTS

Station Name: HB-13/1 Station Type: WELL CASING Perf Interval (ft bgs): 280-810

Aquifer: UNDEFINED

Well Owner: HUNTINGTON BEACH Well Name: Well No. 13

City: HUNTINGTON BEACH

Sample Group ID: 5000869 Sample ID: 5002250

Sample Date/Time: 01/18/2005 09:50:00 Receive Date/Time: 01/18/2005 11:50:00 Sampling Method: DEDICATED PUMP

Monitoring Program: Title 22

Sampling Agency: O.C. WATER DISTRICT

Sampled By: BRIAN OKEY

Lab Sample No.: 05010404-02 Laboratory: OCWD Analysis Requested: 524

FIELD PARAMETERS:

EC (umhos/cm): 934 pH (UNITS): 7.4 TEMP (C): 19.3 D.O. (mg/L.): NA

D.O. TEMP (C): NA Total Chlorine (mg/L): NA Free Chlorine (mg/L): NA

Comments:

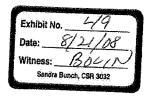
	rameter —	Analysis	Da	tes	Re-	suits	Data et	Limits —
Abbr	Name	Name Method Extrac		Analysis	Value	Units	Value	Units
Reported	Values					······································		· · · · · · · · · · · · · · · · · · ·
TTHMs MTBE	Total THMs Methyl tert-butyl ether	524.2 524.2		01/28/2005		ug/L	.5	ug/L
ETBE TAME	Ethyl tert-butyl ether Tert-amyl methyl ether	524.2		01/28/2005 01/28/2005	ND	ug/L ug/L	.2 1	ug/L ug/L
DIPE TBA	Diisopropyl ether	524.2 524.2		01/28/2005 01/28/2005	ND ND	ug/L ug/L	1 1	ug/L ug/L
I DA	tert-butyl alcohol	524.2		01/28/2005	ND	ug/L	2	ug/L

NA: Not Analyzed ND: Not Detected

TR: Trace

02/11/2005 07:34 OCWD WRMS RPT#: 3048 Page: 3

1 ab#	Completo	Collect Date	TactID	PanortadPaculte	NumericResults Units
Lab# 08050206-02		5/7/2008		ND	0.01 ug/L
		2/27/2008		ND	0.01 ag/L 0 ug/L
08020713-02		11/13/2007		ND	0 ug/L
07110180-02		8/14/2007		ND	0.01 ug/L
07080277-02		5/1/2007		ND	0.01 ug/L
07050012-02				ND	0.01 ug/L
07020464-02		2/28/2007		ND	0.01 ug/L
06110116-02		11/8/2006			_
06040493-02		4/18/2006		ND	0 ug/L
06020249-02		2/13/2006		ND	0 ug/L 0 ug/L
05110016-02		11/1/2005	-	ND	-
05100413-02		10/19/2005		ND	0.01 ug/L
05090740-02		9/28/2005		ND	0.01 ug/L
05080252-02		8/9/2005		ND	0.01 ug/L
05050156-02		5/4/2005		ND	0 ug/L
05020138-02		2/8/2005		ND	0 ug/L
05010404-02		1/18/2005		ND	0.17 ug/L
04110329-02		11/10/2004		ND	0 ug/L
04110044-02		11/1/2004		ND	0.02 ug/L
04100337-02		10/12/2004		ND	0 ug/L
04100336-02		10/12/2004		ND	0 ug/L
04090690-02		9/27/2004		ND	0 ug/L
04090689-02		9/27/2004		ND	0 ug/L
04080053-02		8/2/2004		ND	0.01 ug/L
04060046-02		6/1/2004		ND	0 ug/L
04050754-02		5/26/2004		ND	0 ug/L
04050753-02		5/26/2004		ND	0 ug/L
04050053-02		5/3/2004		ND	0 ug/L
04020059-02		2/3/2004		ND	0.01 ug/L
03120138-02		12/2/2003		ND	0 ug/L
03100474-02		10/14/2003		ND	0.09 ug/L
03090799-02		9/23/2003		ND	0 ug/L
03070396-02		7/14/2003		ND	0 ug/L
03060043-02		6/2/2003		ND	0 ug/L
03050510-02		5/19/2003		ND	0 ug/L
03050106-02			3 MTBE	ND	0 ug/L
03040734-02		4/22/200		ND	0 ug/L
03040725-02		4/22/200		ND	0 ug/L
03030609-0		3/20/200		ND	0 ug/L
03030607-0		3/20/200		ND	0 ug/L
03020269-0		2/10/200		ND	0.04 ug/L
02100717-0		10/29/200		ND	0.01 ug/L 0 ug/L
02090048-0			2 MTBE	ND	-
02070054-0			2 MTBE	ND	0 ug/L
02060677-0		6/20/200		ND	0 ug/L
02060676-0		6/20/200		ND	0 ug/L
02060060-0			2 MTBE	ND	0 ug/L
02050824-0		5/28/200		ND	0 ug/L
02020201-0			2 MTBE	ND	0.01 ug/L
02020200-0			2 MTBE	ND	0.02 ug/L
02010266-0	2 HB-13/1	1/14/200	2 MTBE	ND	0 ug/L



Analysis Date 5/16/2008 3/5/2008 11/19/2007 8/17/2007 5/2/2007 3/5/2007 11/10/2006 4/20/2006 2/16/2006 11/4/2005 10/21/2005 10/3/2005 8/12/2005 5/9/2005 2/11/2005 1/28/2005 11/17/2004 11/3/2004 10/19/2004 10/19/2004 10/2/2004 10/2/2004 8/6/2004 6/5/2004 6/2/2004 6/2/2004 5/9/2004 2/6/2004 12/13/2003 10/20/2003 9/25/2003 7/18/2003 6/4/2003 5/24/2003 5/8/2003 4/25/2003 4/24/2003 3/24/2003 3/24/2003 2/14/2003 10/30/2002 9/5/2002 7/10/2002 6/21/2002 6/21/2002 6/6/2002 6/1/2002 2/12/2002

2/12/2002 1/16/2002

1913 West Edinger Ave, Santa Ana Unocal Sta #5356

dispenser islands. A leaking product line was discovered (Secor, 4/3/08, Response to Comments from Review of Draff Subsequent contaminant spikes in UST area (e.g.: MW-9.* TBA 36,000 1/21/04). Indicates subsequent releases to groundwater. Subsequently, free product observed in Nov-2003 (TRC, 3/12/04, Free Product Smapling and A fuel leak was detected at the site in Oct-1992 when seven exploratory borings will drilled near hte UST area and Off-Site Groundwater Assessment and Soil Vapor Investigation Report and Human Health Risk Assessment). Systems Tank, Line, and Leak Detector Test Report) RP missed multiple work plan and reporting deadlines, and did not include requested data and information in work plans and reports.

MTBE 1st tested in gw: 1/10/96 in MW-8, (somed 10-25 ft bgs., dstryed 10/10/96; replace w/ TPW-6 - 0-12.5 ft bgs). MTBE 1st detected in groundwater: 1/10/96 in MW-6 - 4,900 ug/L. Max MTBE detected in a gw monitoring well: 4/24/97 in WW-9 - 1,900,000 ug/L.

TBA 1st detected in groundwater. 7/6/00 in MW-15 - 4,100 ug/L. (7/11/00 MW-9 - 640,000 ug/L). Max TBA detected in a gw monitoring well: 6/6/01 in MW-9 - 1,100,000 ug/L. TBA 1st tested in groundwater. 7/6/00 in MW-4 & MW-5 (ND<5000 ug/L).

semi-perched gw zone: from ~25 to 48 ft bgs (all mont wells screened from 20 to 30 ft bgs). Alpha Aquifer ~67 to 105 ft bgs. 2 saturated zones are identified (Komex):

Farthest downgradient well MW-25 - 1st tested MTBE and TBA in Mar-03: Max MTBE not detected (DL - .50 ug/L) Max TBA detected Oct-04 at 35 ug/L.

MTBE and TBA 1st detected 7/19/02 off-site MW-22 - MTBE 840 ug/L, TBA 210 ug/L - not in line w/ MW-25 BUT MW-25 is not in optimum position / screened interval (see TRC - Fig 2, June 6-4-08 GW Elev map). MTBE and TBA detected in almost all off-site wells in or after 2002.

Semi-perched groundwater flow direction is SE (Komex report). Deeper groundwater flow direction is SW (Komex report).

Vertical groundwater gradient is down (Komex report).

Feb-95 begin remediation testing - 2.5 yrs after leak discovery: Oct-92 - fuel leak discovered.

Remediation: initiated Apr-2004; NO groundwater capture initiated.

Dec-97 to Feb-01 - periodic purging from selected wells - 21,757 gal removed (ave ~560 gal/mo, concent unk). Jan-98 - Feas Stdy & RAP states DPE most effective (DPE doesn't contain gw contam plume - see later data). Dec-01 - 5-day DPE test ~3yrs after deciding DPE is most effective rem tech Feb-95 - SVE & pump test - ECE concluded SVE ineffective.

Jun-01 - after stop purging - max MTBE 87,000 ug/L MW-9; max TBA 1,100,000 ug/L MW-9. Aug-02 - 2-day AS test ~4.5 yrs after deciding DPE is most effective rem tech.

Nov-02 - a CAP proposing ozone injection as remediation technology submitted to RWQCB - approved Dec-02. Apr-04 - C-sparge rem syst initiated - 12 yrs after fuel leak discovered; 9 yrs aftr beginning rem eval.

Aug-05 - GEW-1 well installed to ~30 ft bgs - aquifer test; K = 1.7 to 5.2 ft/dy (i=0.15 & ne=0.2 per Secor). GEW-2 & GEW-3 wells installed Sep-06, 1 yr after 1st gw extract well - geology varied based on logs

1.5 yrs after approval.

Quarterly Monitoring Report April Through June 2008. 76 Station #5356, 1913 West Edinger Ave. Santa Ana, California MTBE and TBA groundwater plumes have migrated off site IN ALL DIRECTIONS, but especially SE (7/9/08 TRC.



Historic MTBE and TBA gw plumes have not been delineated laterally. Recent MTBE and TBA gw plumes have not been delineated laterally. MTBE and TBA gw plumes have not been delineated vertically. Groundwater contamination has migrated SE off-site, >300 ft from source point. Groundwater conduits are near by (potential migration paths from shallow saturated zones to deeper saturated zones):

Nearest well: W-17123 - domestic well ~365 ft SE of site - in downgradient direction.

Dillied to 160 ft bgs.

Screened_unknown_ft bgs.

pump rate - Inactive, abandoned.

Nearest well in Principal Aquifer: EDGW-SA - domestic well ~945 ft SE of site - in downgradient direction.

Drilled to 308 ft bgs. American Screened Lunknown, ft bgs.

pump rate - inactive.

Nearest drinking water production well: DIAW-SA - ~1000 ft SW of site. Drilled to 179 ft bgs.

Screened unknown Pump rate - unknown

Top of Shallow zone - ~71 ft bgs, Bottom of Shallow zone - ~244 ft bgs. Top of Principal Aquifer ~284 ft bgs.

Nearest MTBE detection in drinking water production well.

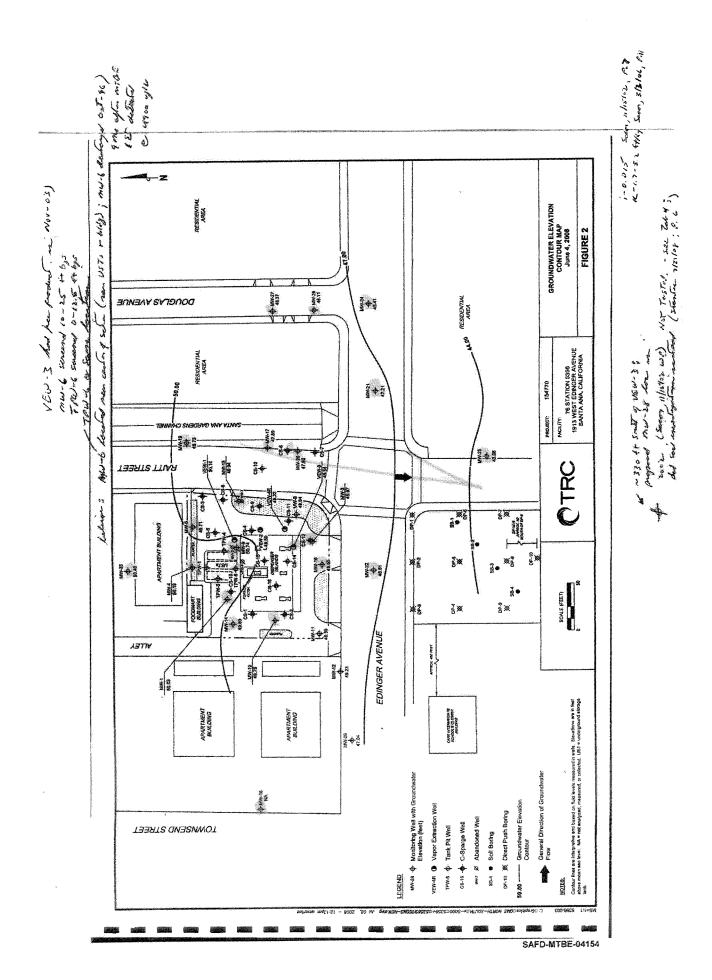
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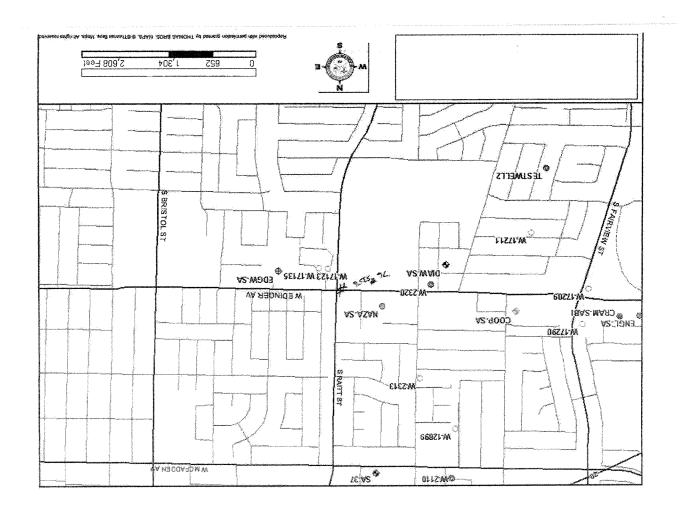
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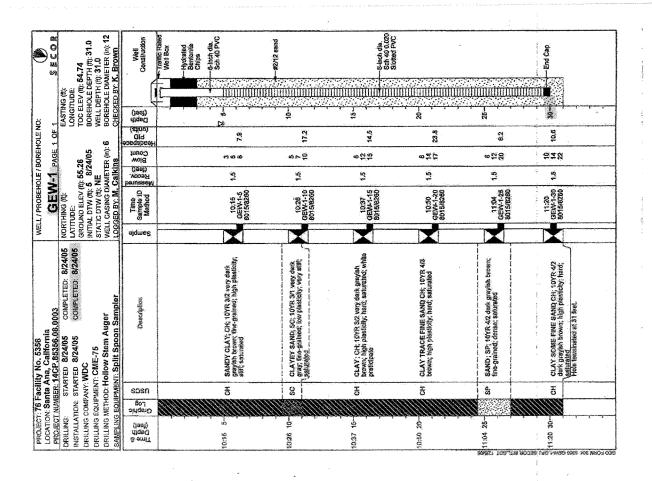
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